

Jing Yuan

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EDUCATION

Ph.D., Interdisciplinary Ecology, University of Florida, 2015

Concentration: Geographic Information Systems

Dissertation: *Metrics of Pattern Loss and Ecosystem Change in the Ridge and Slough Mosaic of the Everglades*

Dissertation Advisor: Matthew J. Cohen, Ph.D.

M.Sc., Natural Resources Conservation, Beijing Forestry University, 2009

Thesis: *Biogeochemical Factors Controlling Distribution of Submerged Aquatic Plants in Wetland, Suburb of Beijing*

Thesis Advisor: Guofa Cui, Ph.D.

B.Sc., Environmental Science, Southwest Forestry University, 2005

RESEARCH EXPERIENCE

Postdoctoral Research Associate, Center for Global Change & Earth Observations, Michigan State University, 07/2020-Current

Postdoctoral Research Associate, School of Computing and Information Science, University of Maine, 05/2018-06/2020

Research Scientist, Qiaonv Foundation, 11/2017-04/2018

Junior Researcher, Chinese Academy of Environmental Planning, Ministry of Ecology and Environment of China, 12/2015-10/2017

Environmental Specialist (Intern), Great Tumen Initiative Secretariat, United Nations Development Programme, 09/2015-11/2015

Research Assistant, Ecohydrology Lab, University of Florida, 08/2009-08/2015

PUBLICATIONS

Published

8. **Yuan, J.**, & Cohen, M. J. (2020). Remote detection of ecosystem degradation in the everglades ridge-slough landscape. *Remote Sensing of Environment*, 247, 111917. ([Link](#))
7. Beard K., Kimble M., **Yuan J.**, Liu W., Moore S., Evans K. A method for heterogenous spatio-temporal data integration in support of marine aquaculture site selection. (2019) *Marine Science and Engineering*, 8, 96. ([Link](#))
6. Johnson, T. R., Beard, K., Brady, D. C., Byron, C. J., Cleaver, C., Duffy, K., Teisl, M., **Yuan, J.**, (2019). A Social-Ecological System Framework for Marine Aquaculture Research. *Sustainability*, 11(9), 2522. ([Link](#))
5. **Yuan, J.**, & Cohen, M. J. (2017). Spatial metrics for detecting ecosystem degradation in the ridge-slough patterned landscape. *Ecological indicators*, 74, 427-440. ([Link](#))
4. **Yuan, J.**, Cohen, M. J., Kaplan, D. A., Acharya, S., Larsen, L. G., & Nungesser, M. K. (2015). Linking metrics of landscape pattern to hydrological process in a lotic wetland. *Landscape ecology*, 30(10), 1893-1912. ([Link](#))
3. Wang, J., Yu F., Ma, G., **Yuan, J.**, Zhou, X., Zhou, Y., (2017). Measuring Gross Ecosystem Product (GEP) of 2015 for Terrestrial Ecosystems in China, *China Environmental Science*, 37(4):32-41(In Chinese)
2. **Yuan, J.**, Cui, G., Lei, T., (2009). Relationships of Submerged Plants Distribution with Hydro-Environmental Factors - A Case Study in Beijing' s Wetlands. *Chinese Journal of Ecology*. (11): 33-40(In Chinese)
1. Zong, X., Cui. G., **Yuan, J.**, (2008). Contingent Valuation of the Existence Value of Giant Panda. *Acta Ecologica Sinica*. 28(5):2090-2098(In Chinese)

In Review or In Preparation

Yuan, J., Beard K., Johnson, T., Spatial Patterns of Amenity Migration Indicators in Coastal Maine. (re-submitted to *Applied Geography*)

TEACHING AND MENTORING EXPERIENCE

Guest lecturer, SIE509 Principles of Geographic Information Systems, Fall 2019
School of Computing and Information Science, University of Maine

- Gave a lecture on American Census and American Community Survey

Mentor, Student Science Training Program, Summer 2015
Center for Precollegiate Education and Training, University of Florida

- Mentored one high school student in field data collection and geospatial analysis

GOVERNMENTAL REPORTS AND GUIDELINES

(Selected)

Technical Guidelines for Environmental Damage Assessment - Framework, Ministry of Ecology and Environmental of China, June 2016.

China National Gross Ecosystem Product Evaluation Guideline, Academy of Environmental Planning, May 2016

PRESENTATIONS

Posters

“Spatial Patterns in Amenity Migration Indicators in Coastal Maine”. AAG Annual Meeting, Washington DC, 04/2019.

“Pattern metrics and early detection of ecosystem degradation in the ridge-slough landscape”. Great Everglades Ecosystem Restoration (GEER) Conference, Coral Spring FL, 05/2015.

“Metrics to Describe the Effect of Landscape Pattern on Hydrologic Regime in a Lotic Wetland”. American Geophysical Union (AGU) Annual Meeting. San Francisco CA, 12/2013.

“Analysis of geometrics of ridge patch in the ridge and slough mosaic in the Everglades”. 9th International Wetland Conference, Orland FL, 06/2012.

Talks

“Environmental Loss& Damage Investigation and Assessment in China.” 10th International Wetlands Conference. Changshu, China, 10/2016.

“Wetland Restoration and planning in Everglades-Implication for China’s Wetland Restoration”, Invited talk at Chinese Wetland Research Center, Beijing, China, 11/2015.

“Metrics and Early Detection of Ecosystem Degradation in Ridge and Slough Landscape”. 100th ESA Annual Meeting, Baltimore, MD 08/2015

“Linking Metrics of Landscape Pattern to Hydrological Process in a Lotic Wetland” International Association of Landscape Ecology World Congress, Portland, OR 07/2015

AWARDS AND HONORS

China Scholarship, Chinese Ministry of Education, 2009-2013

Outstanding Graduate Fellowship, Beijing Forestry University, 2006-2009

PROFESSIONAL MEMBERSHIPS

American Association of Geographers (AAG)

Ecological Society of America (ESA)

American Geophysical Union (AGU)

Society of Wetland Scientist (SWS)

International Association of Landscape Ecology
(IALE)

PROFESSIONAL SERVICES

Manuscript Peer Review, Wetland, 2018-current

Secretary, Sino-Ecologists Association Overseas, 2018-2020, 2020-2020

CERTIFICATES

Open Water Scuba Dive, Diver #15050T2951, PADI, 05/2015

TECHNICAL SKILLS

- Advanced programming ability in R
- Proficient in geospatial and remote sensing related software (ArcGIS Desktop, QGIS, GeoDa, ENVI, Erdas Imagine and IDRISI Taiga)
- Familiar with PostgreSQL/PostGIS
- Familiar with Google Earth Engine
- Familiar with Species Distribution Modelling
- Rich experiences in ecological field survey